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☐ 1. Document ID: DE 69515587 E, EP 707044 A2, AU 9533144 A, CA 2160207 A, EP 707044 A3, JP 08208966 A, BR 9504356 A, US 5641501 A, ZA 9508540 A, US 5705181 A, AU 690323 B, EP 707044 B1

L1: Entry 1 of 1

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Apr 20, 2000

DERWENT-ACC-NO: 1996-189941

DERWENT-WEEK: 200026

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TITLE: Absorbable biocompatible polymer blend for medical device for wound closure, e.g. suture - comprises poly:lactide-co-glycolide copolymer and poly:epsilon-caprolactone!-co-p-dioxanone copolymer, giving shape retention and high strength

INVENTOR: ARNOLD, S C; COOPER, K ; SCOPELIANOS, A

PATENT-ASSIGNEE:

ASSIGNEE

CODE

ETHICON INC

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PRIORITY-DATA: 1994US-0320634 (October 11, 1994), 1996US-0688585 (July 30, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 69515587 E	April 20, 2000	N/A	000	C08L067/04
✓ EP 707044 A2	April 17, 1996	E	013	C08L067/04
AU 9533144 A	April 26, 1996	N/A	000	C08L067/04
CA 2160207 A	April 12, 1996	N/A	000	C08L067/04
EP 707044 A3	June 5, 1996	N/A	000	C08L067/04
JP 08208966 A	August 13, 1996	N/A	013	C08L067/04
BR 9504356 A	October 8, 1996	N/A	000	C08L005/00
<u>US 5641501 A</u>	June 24, 1997	N/A	011	C08L069/00
ZA 9508540 A	June 25, 1997	N/A	040	C08J000/00
US 5705181 A	January 6, 1998	N/A	011	A61K047/34
AU 690323 B	April 23, 1998	N/A	000	C08L067/04
EP 707044 B1	March 15, 2000	E	000	C08L067/04

DESIGNATED-STATES: DE FR GB IT DE FR GB IT

CITED-DOCUMENTS:No-SR.Pub; EP 185453 ; EP 401844 ; EP 440416 ; WO 9411441

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 69515587E	October 10, 1995	1995DE-0615587	N/A
DE 69515587E	October 10, 1995	1995EP-0307158	N/A
DE 69515587E		EP 707044	Based on
EP 707044A2	October 10, 1995	1995EP-0307158	N/A
AU 9533144A	October 9, 1995	1995AU-0033144	N/A
CA 2160207A	October 10, 1995	1995CA-2160207	N/A
EP 707044A3	October 10, 1995	1995EP-0307158	N/A
JP 08208966A	October 9, 1995	1995JP-0286373	N/A
BR 9504356A	October 10, 1995	1995BR-0004356	N/A
US 5641501A	October 11, 1994	1994US-0320634	N/A
ZA 9508540A	October 10, 1995	1995ZA-0008540	N/A
US 5705181A	October 11, 1994	1994US-0320634	Div ex
US 5705181A	July 30, 1996	1996US-0688585	N/A
US 5705181A		US 5641501	Div ex
AU 690323B	October 9, 1995	1995AU-0033144	N/A
AU 690323B		AU 9533144	Previous Publ.
EP 707044B1	October 10, 1995	1995EP-0307158	N/A

ABSTRACTED-PUB-NO: EP 707044A
BASIC-ABSTRACT:

Also claimed are: (i) an absorbable, biocompatible polymer blend comprising: (a); and (b) a minor phase comprising 0.1-9.9 wt.% of a mixt. of poly(epsilon-caprolactone) and poly(p-dioxanone) homopolymers; (ii) an absorbable medical device for use in wound closure comprising the polymer blend; and (iii) a method of conforming the shape of a bioabsorbable medical device to a body structure.

USE - For a biomedical device (claimed), esp. implantable wound closure devices, e.g. suture anchors, surgical staples, clips, sutures, plates and screws.

ABSTRACTED-PUB-NO:

EQUIVALENT-ABSTRACTS:

poly(lactide-co-glycolide) copolymers or mixts.; and (b) a minor phase comprising 0.1-9.9 wt.% of a copolymer of poly(epsilon -caprolactone-co-p-dioxanone).

Also claimed are: (i) an absorbable, biocompatible polymer blend comprising: (a); and (b) a minor phase comprising 0.1-9.9 wt.% of a mixt. of poly(epsilon -caprolactone) and poly(p-dioxanone) homopolymers; (ii) an absorbable medical device for use in wound closure comprising the polymer blend; and (iii) a method of conforming the shape of a bioabsorbable medical device to a body structure.

Pref. the major phase comprises 90.5 - 99.5 wt.% of a polymer of poly(lactide) homopolymers or poly(lactide-co-glycolide) copolymers, or mixts., and the minor phase comprises 0.5-9.5 wt.% of a copolymer of poly(epsilon -caprolactone-co-p-dioxanone). The poly(epsilon -caprolactone-co-p-dioxanone) copolymer comprises 5-95 (50-95) mol.% of epsilon -caprolactone repeated units. The poly(lactide-co-glycolide) copolymer comprises 50-95(95) mol.% lactide repeated units. The ratio of poly(epsilon -caprolactone) to poly(p-dioxanone) comprises 5:95-95:5 (50:50-95:5).

USE - For a biomedical device (claimed), esp. implantable wound closure devices, e.g. suture anchors, surgical staples, clips, sutures, plates and screws.

ADVANTAGE - The devices exhibit shape retention, dimensional stability and palpability without loss of the strength, stiffness and breaking strength retention.

US 5641501A

An absorbable, biocompatible polymer blend, comprising:

a major phase comprising about 90.1 weight percent to about 99.9 weight percent of a polymer selected from the group consisting of poly(lactide) homopolymers and poly(lactide-co-glycolide) copolymers, and combinations thereof; and,

a minor phase comprising about 0.1 weight percent to about 9.9 weight percent of a copolymer of poly(epsilon -caprolactone-co-p-dioxanone), said blend having a total weight fraction of the major phase and minor phase equal to 100.0 weight percent.

US 5705181A

An absorbable, biocompatible polymer blend comprises: (a) a major phase comprising 90.1-99.9 wt .% of a polymer of poly(lactide) homopolymers or poly(lactide-co-glycolide) copolymers or mixts.; and (b) a minor phase comprising 0.1-9.9 wt.% of a copolymer of poly(epsilon -caprolactone-co-p-dioxanone).

Also claimed are: (i) an absorbable, biocompatible polymer blend comprising: (a); and (b) a minor phase comprising 0.1-9.9 wt.% of a mixt. of poly(epsilon -caprolactone) and poly(p-dioxanone) homopolymers; (ii) an absorbable medical device for use in wound closure comprising the polymer blend; and (iii) a method of conforming the shape of a bioabsorbable medical device to a body structure.

Pref. the major phase comprises 90.5 - 99.5 wt.% of a polymer of poly(lactide) homopolymers or poly(lactide-co-glycolide) copolymers, or mixts., and the minor phase comprises 0.5-9.5 wt.% of a copolymer of poly(epsilon -caprolactone-co-p-dioxanone). The poly(epsilon -caprolactone-co-p-dioxanone) copolymer comprises 5-95 (50-95) mol.% of epsilon -caprolactone repeated units. The poly(lactide-co-glycolide) copolymer comprises 50-95(95) mol.% lactide repeated units. The ratio of poly(epsilon -caprolactone) to poly(p-dioxanone) comprises 5:95-95:5 (50:50-95:5).

USE - For a biomedical device (claimed), esp. implantable wound closure devices, e.g. suture anchors, surgical staples, clips, sutures, plates and screws.

ADVANTAGE - The devices exhibit shape retention, dimensional stability and palpability without loss of the strength, stiffness and breaking strength retention.

CHOSEN-DRAWING: Dwg.0/4 Dwg.4/4 Dwg.2/4

TITLE-TERMS: ABSORB BIOCOMPATIBLE POLYMER BLEND MEDICAL DEVICE WOUND CLOSURE
SUTURE COMPRISE POLY LACTIDE CO GLYCOLIDE COPOLYMER POLY EPSILON POLYCAPROLACTONE
CO P DIOXANONE COPOLYMER SHAPE RETAIN HIGH STRENGTH

DERWENT-CLASS: A23 A96 D22 P31 P34 P64

CPI-CODES: A05-E02; A07-A03A; A09-A08; A12-V03; D09-D;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; G4068 G2131 D01 D10 D11 D22 D23 D32 D46 D50 D76 D86 F43
; R17298 G2131 D01 D23 D22 D31 D46 D50 D84 F43 ; H0022 H0011 ; P0055 ; P1978*R
P0839 D01 D50 D63 F41 ; L9999 L2528 L2506 ; L9999 L2186*R ; L9999 L2744 L2733
Polymer Index [1.2] 018 ; ND01 ; K9745*R ; B9999 B4488 B4466 ; B9999 B4477 B4466 ;
B9999 B3021 B3010 ; Q9999 Q7987*R ; Q9999 Q8048 Q7987 ; B9999 B3758*R B3747 ;
B9999 B4091*R B3838 B3747 ; B9999 B4079 B3930 B3838 B3747 ; N9999 N5812*R ; N9999
N6177*R ; N9999 N6440*R ; N9999 N6462 N6440 Polymer Index [1.3] 018 ; R05350 D01
D11 D10 D50 D61 D93 F36 F35 Sn 4A ; C999 C102 C000 ; C999 C328 Polymer Index [2.1]
018 ; R01295 G2131 D01 D23 D22 D31 D42 D50 D77 D86 F43 ; H0000 ; P0055 ; P1978*R
P0839 D01 D50 D63 F41 Polymer Index [2.2] 018 ; G2142 G2131 D01 F43 D23 D22 D31
D76 D46 D50 D84 F34 ; H0000 ; P0055 ; P1978*R P0839 D01 D50 D63 F41 Polymer Index
[2.3] 018 ; ND01 ; K9745*R ; B9999 B4488 B4466 ; B9999 B4477 B4466 ; B9999 B3021
B3010 ; Q9999 Q7987*R ; Q9999 Q8048 Q7987 ; B9999 B3758*R B3747 ; B9999 B4091*R
B3838 B3747 ; B9999 B4079 B3930 B3838 B3747 ; N9999 N5812*R ; N9999 N6177*R ;
N9999 N6440*R ; N9999 N6462 N6440

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-060727

Non-CPI Secondary Accession Numbers: N1996-158774

Full Title CIT.1 REV.1 CLS.1 REF.1 DRAW.1

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